EOD TEST PROCEDURE	WP 001B
Title	Page Number
Emission Factor Evaporative System Pressure Check Test	1 of 6
Originator	Supersedes
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Responsible Organization	Computer Program
Vehicle Testing	
Type of Test Report	Data Form Number
	EF Form 1002-01
Report Distribution	Implementation Date
	09-30-94

Implementation Approval

Original Test Procedure Authorized by EPCN #147 on 08-25-92

Revision Description

(1)	O9-30-94	The purpose of this change is to revise the procedure as described in EPCN #170.
Note	e: Specific endors	ic brand names in EPA/EOD procedures are for reference only and are not an ement of those products.

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1. Purpose

The purpose of this procedure is to document the steps required to perform an Evaporative System Pressure Check on an Emission Factor (EF) test vehicle.

The pressure check procedure is designed to ensure the integrity of the vehicle's fuel vapor collection system.

EF Form 1002-01 is to be used with this procedure (see Attachment A).

2. Test Procedure

- 100 Complete TP 702, Vehicle Fuel Exchange.
- On EF Form 1002-01, record the Vehicle ID # and Test #.
- Locate the fuel cap and fuel filler neck. Inspect and document their condition on EF Form 1002-01.

If any problems are encountered about the condition of the test vehicle, contact the EF Contract Officer and proceed to Step 109.

Locate the vehicle's canister and document its condition as described below on EF Form 1002-01.

If the canister and hose condition are acceptable, check the canister and hose condition OK line under visual inspection.

If you are unable to access the canister, check the canister inaccessible line under visual inspection..

Proceed to Step 109.

If the vehicle fuel tank vapor line is not connected to the canister, check the canister disconnected line under visual inspection, and proceed to Step 105.

Do not reconnect the fuel tank vapor line to the canister after the pressure test.

Disconnect the fuel tank vapor line from the canister by loosening the hose clamp (if used).

Note: If a vacuum valve is present, you must bypass it to perform an accurate pressure test. Connect the nitrogen system to the hose that is between the fuel tank and the vacuum valve.

105 Connect the line from the nitrogen pressure check system to the fuel tank line.

There are four nitrogen pressure check systems in the fuel bay.

They can be identified by the pressure meter labeled "Capsuhelic."

If the fitting on the nitrogen pressure check system doesn't fit the fuel line, try another fitting from a different system.

Note: There are 3 valves that control the flow of nitrogen in the system. The two that are mounted above the meter that control the gas flowing into the vehicle, and the valve below the meter is used to bleed gas from the system.

106 Pressurize the fuel tank to 14.5 ± 0.5 inches of H₂O. To accomplish this, the valves may have to be activated many times, depending on the size of the gas tank.

Note: If the vehicle fuel system cannot be pressurized to 14.0 inches of H₂O, determine the cause.

If the problem is found to be a loose fuel cap or loose fuel line hose, document the condition, make the repair, inform the EF project officer, and repeat the test.

- After reaching the desired pressure, close the valves.
- On EF Form 1002-01, under Test Results, record the pressure at the start of the test, at 1 minute into the test, and at 2 minutes into the test.

If after 2 minutes the pressure is less than 8.0 inches of H₂O, check the fuel cap and all fittings to ensure they are tight.

If not, document their condition under Comments, perform the necessary repair and repeat the test starting at Step 106.

A vehicle fails the pressure check if the final pressure is less than 8.0 inches of H_2O after 2 minutes.

If the pressure test fails twice, repeat the test using another nitrogen pressure check system.

If the vehicle fails using a second system, contact the EF Project Officer.

On EF Form 1002-01, under Test Results, select whether the vehicle passed, failed, or was not tested.

- Release the fuel tank pressure by slowly unscrewing the fuel cap from the filler neck.
 - When you no longer register pressure on the nitrogen gauge, re-cap the fuel tank.
- Disconnect the nitrogen line and reconnect the vehicle fuel tank line to the canister or to the vacuum valve line (unless the fuel line was not connected to the canister prior to the start of the test).
- **Note:** If the fuel line hose was affixed to the canister with a hose clamp and was removed in Step 104, return the hose clamp to its proper position.
- Identify the canister purge line and label it "Purge."
- On EF Form 1002-01, record your EPA ID. # and date.
- Place EF Form 1002-01 on the clipboard.

3. Acceptance Criteria

The following criteria must be met for the test to be valid:

- 3.1 The vehicle fuel system must be pressurized to 14.5 ± 0.5 inches of H_2O .
- 3.2 The vehicle tank vapor canister lines must remain connected during fueling unless the line was disconnected prior to the start of the test.
- 3.3 The vehicle fuel tank line must be disconnected from the canister during the pressure check and reconnected after the test, unless the line was disconnected prior to the start of the test.
- 3.4 The EF project officer must be notified of pressure check test failure and/or hardware problems with the vehicle

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